

1. (currently amended) A method for surface treating the surface of a metal, in which the surface treatment is performed in a surfacing chamber, using a surfacing material, which is formed of one or more compounds ~~and possible additives~~, and in which

- the surfacing material is brought to a principally gaseous state,
- the surfacing material is led to the chamber, and
- the surfacing material is permitted to react with the metal surface being treated,

characterized in that the metal surface being treated is subjected in the chamber in which there is a through flow of the surfacing material to an exhaust connection, and in which the said surfacing material comprises compounds arising in dry distillation of deciduous-wood.

2. (currently amended) A method according to Claim 1, characterized in that the surfacing material is formed ~~in the point of application from at least two fractions, of which~~ at least two fractions wherein the first fraction includes compounds ~~(BIRCH TAR(I))~~ condensed in the said dry distillation process and the second fraction includes uncondensed compounds ~~(CO(g), H₂(g), CO₂(g))~~.

3. (previously presented) A method according to Claim 2, characterized in that when the surfacing material is formed, part of the compounds included in the surfacing material are brought to the process in a solid state.

4. (currently amended) A method according to Claim 1, characterized in that part of the surface being treated ~~can~~ comprises at least part of the internal surface of the said chamber.

5. (previously presented) A method according to Claim 1, characterized in that the surface-treatment process includes in addition one or more intermediate scavenging stages, in order to at least dry the surface layer.

6. (currently amended) A method according to Claim 1, characterized in that at least part of the surface being treated and of the surfacing material are charged electrically to different potentials, in order to bring the surfacing material to the surface being surfaced.

7. (previously presented) A method according to Claim 1, characterized in that at least part of the wall of the surfacing chamber is charged electrically to a different potential relative to the surfacing material, the surface being surfaced being part of the wall of the chamber.

8. (withdrawn) Equipment for surface treating a metal surface, which includes
- means for manufacturing a surfacing material, such as, for example, bringing it from a liquid state into a gaseous state,
 - a surfacing chamber equipped with at least one input connection, in which the metal surface to be surface treated is arranged and
 - surfacing material feed piping fitted between them, which is connected to the said input connection of the surfacing chamber,
 - at least one exit connection arranged in the surfacing chamber, through which the said gaseous surfacing material is arranged to be led out of the chamber,
 - possible auxiliary and storage equipment, for example for regulating the process quantities and controlling the surfacing process and
 - means for leading gaseous compounds (CO(g) , $\text{H}_2\text{(g)}$) as its own fractions for manufacturing the surfacing material,

characterized in that the said surfacing material is arranged to form from compounds arising in dry distillation of deciduous-wood from which at least part is separated one or more fractions and which fractions are again arranged to be combined by means of the equipment when manufacturing the surfacing material in connection with the equipment.

9. (withdrawn) Equipment according to Claim 8, characterized in that the wall structure of the surfacing chamber is arranged from an elastic material, so that it can be advantageously arranged according to the shape of the surface being surfaced.

10. (withdrawn) Equipment according to Claim 8, characterized in that the wall structure is assembled from units attached to each other.

11. (withdrawn) Equipment according to Claim 8, characterized in that at least the surfacing chamber is arranged as a moveable unit, in order to arrange continuous surfacing.

12. (withdrawn) A surfacing material for surface treating a metal surface which is formed of one or more compounds and possible additives, and in which

- the surfacing material is brought to a principally gaseous state,
- the surfacing material is led to a surfacing chamber, and
- the surfacing material is permitted to react with the metal surface being treated,

characterized in that the surfacing material comprises compounds arising in dry distillation of deciduous-wood.

13. (withdrawn) A surfacing material according to Claim 12, characterized in that the surfacing material is gasified directly from the wood material (BIRCH(s)).

14. (withdrawn) A surfacing material according to Claim 12, characterized in that the surfacing material is arranged to be formed from at least a gaseous fraction (CO(g), H₂(g), CO₂(g)) and a liquid fraction (BIRCH-TAR(l), H₂O(l)).

15. (withdrawn) A surfacing material according to Claim 14, characterized in that the surfacing material is additionally formed from a solid fraction.